

FIG. 1

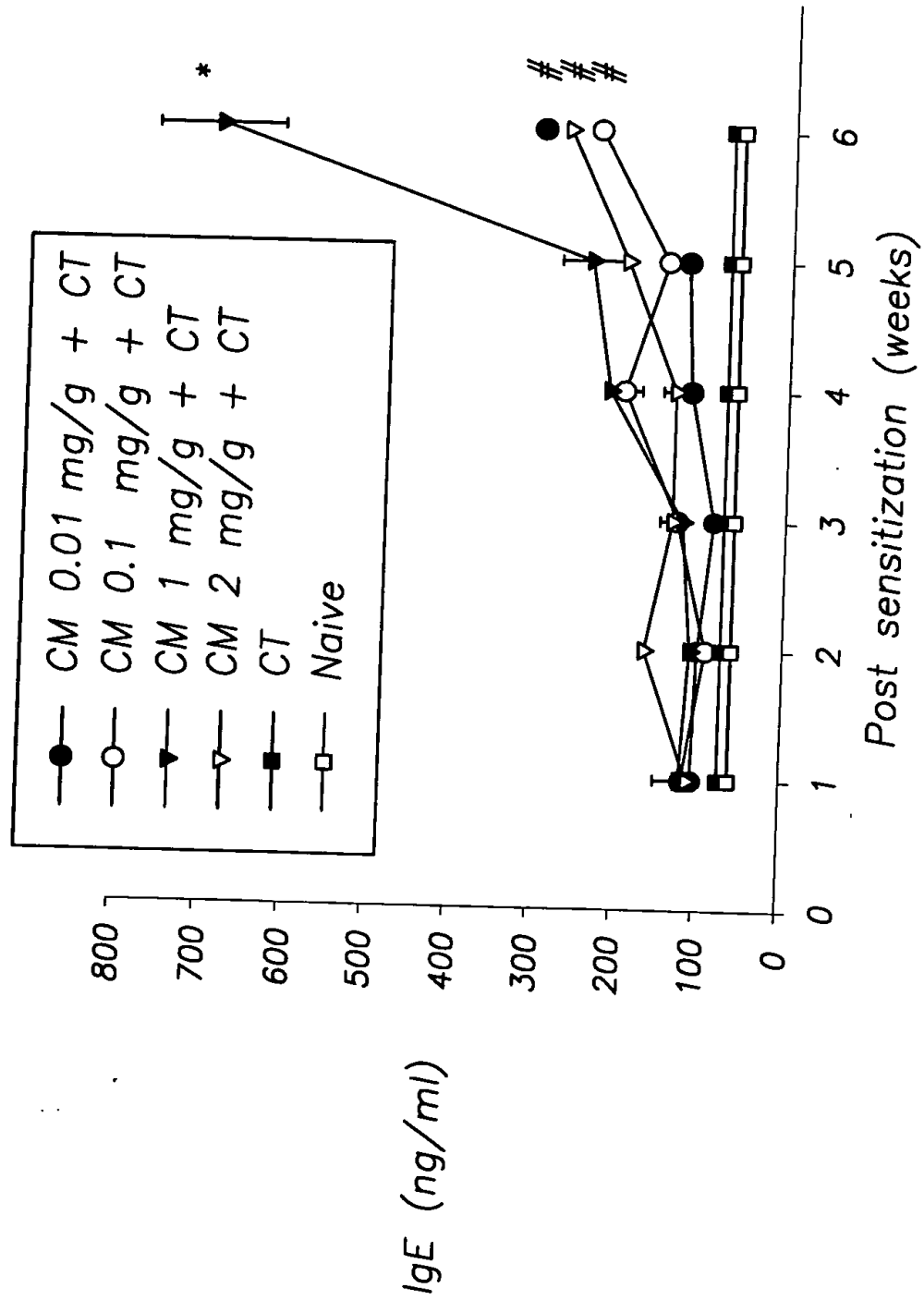
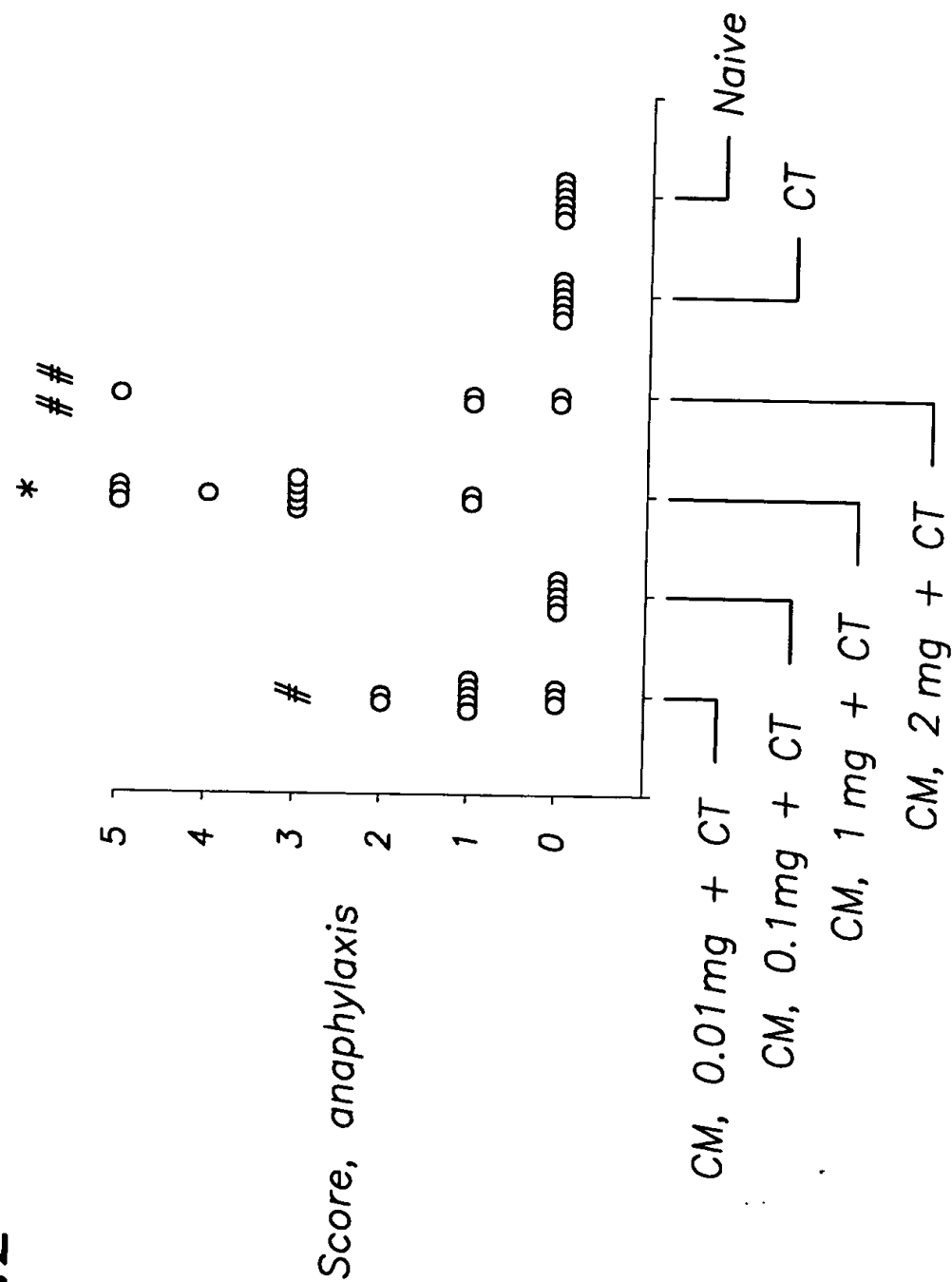
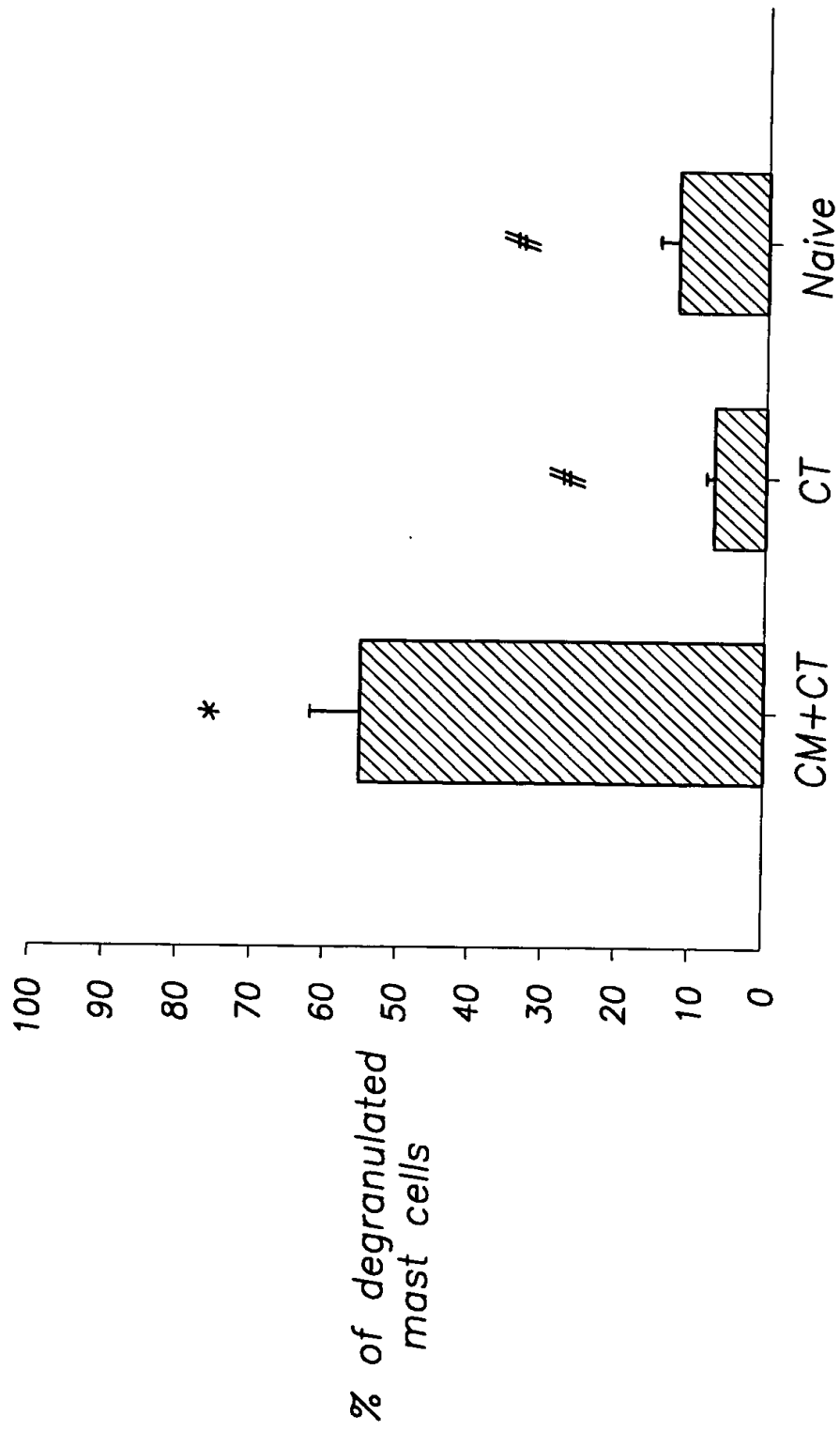


FIG. 2



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FIG. 3



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FIG. 4A (Week 3, first challenge)

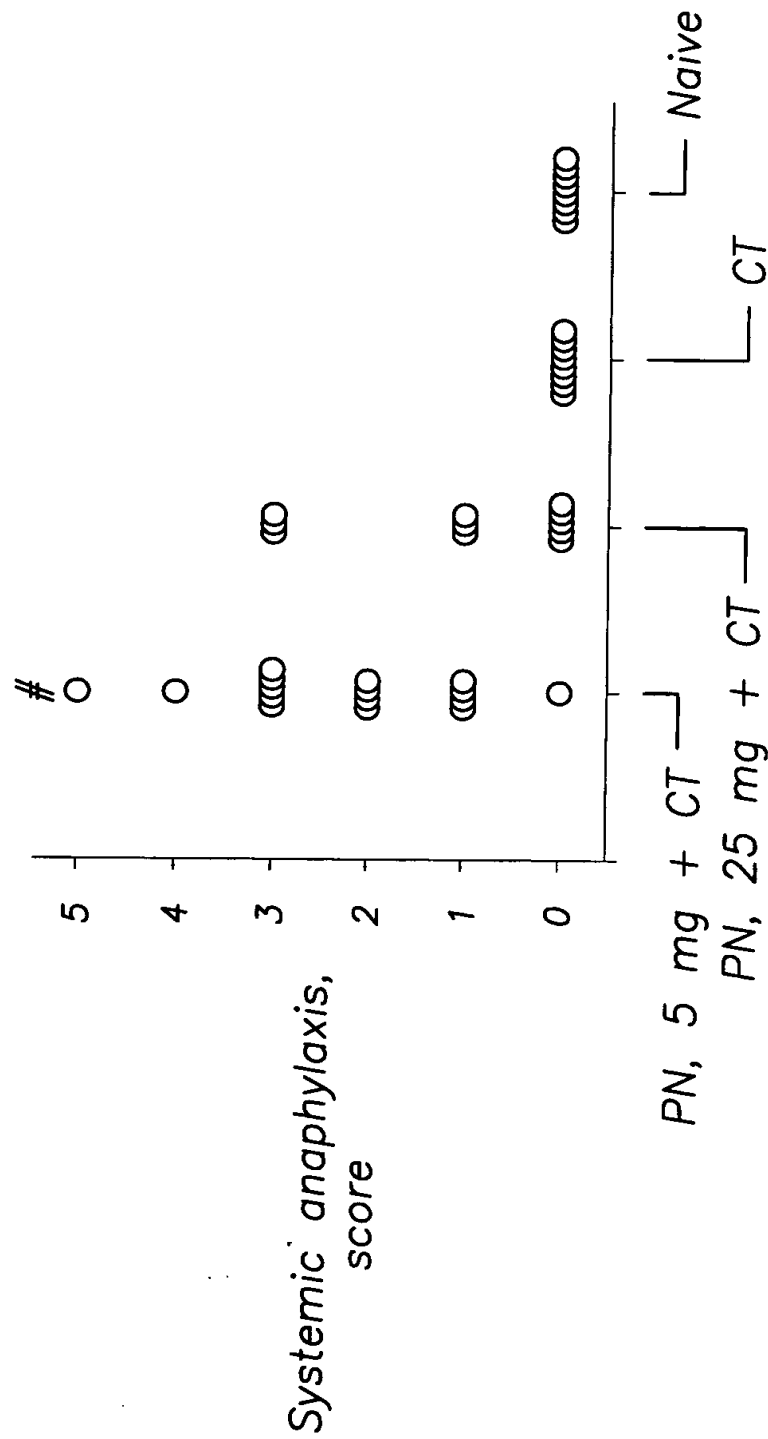
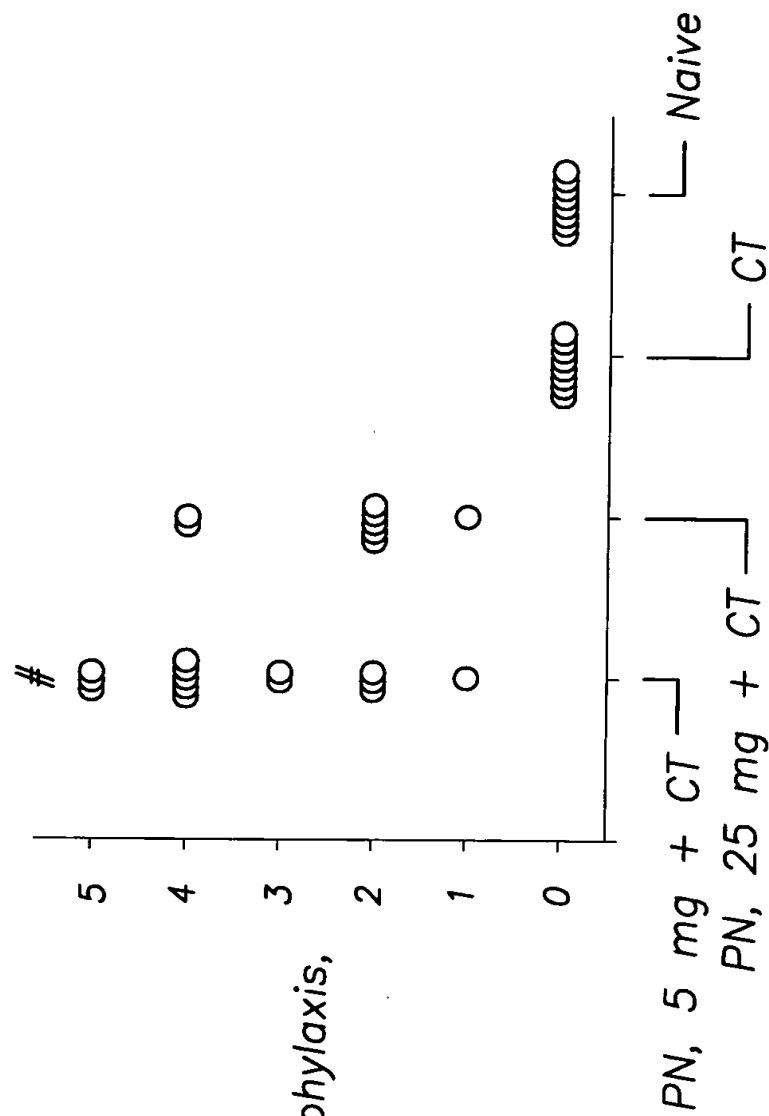


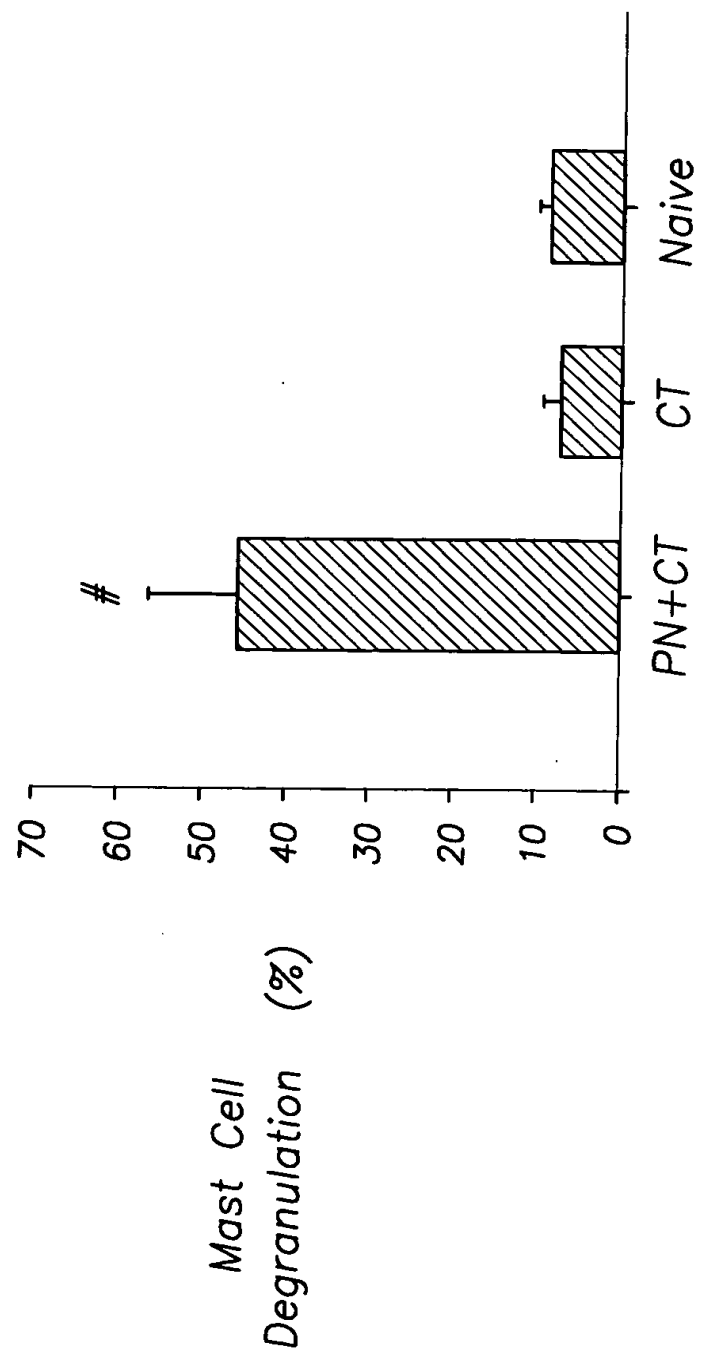
FIG.4B (Week 5, re-challenge)

Systemic anaphylaxis,
score



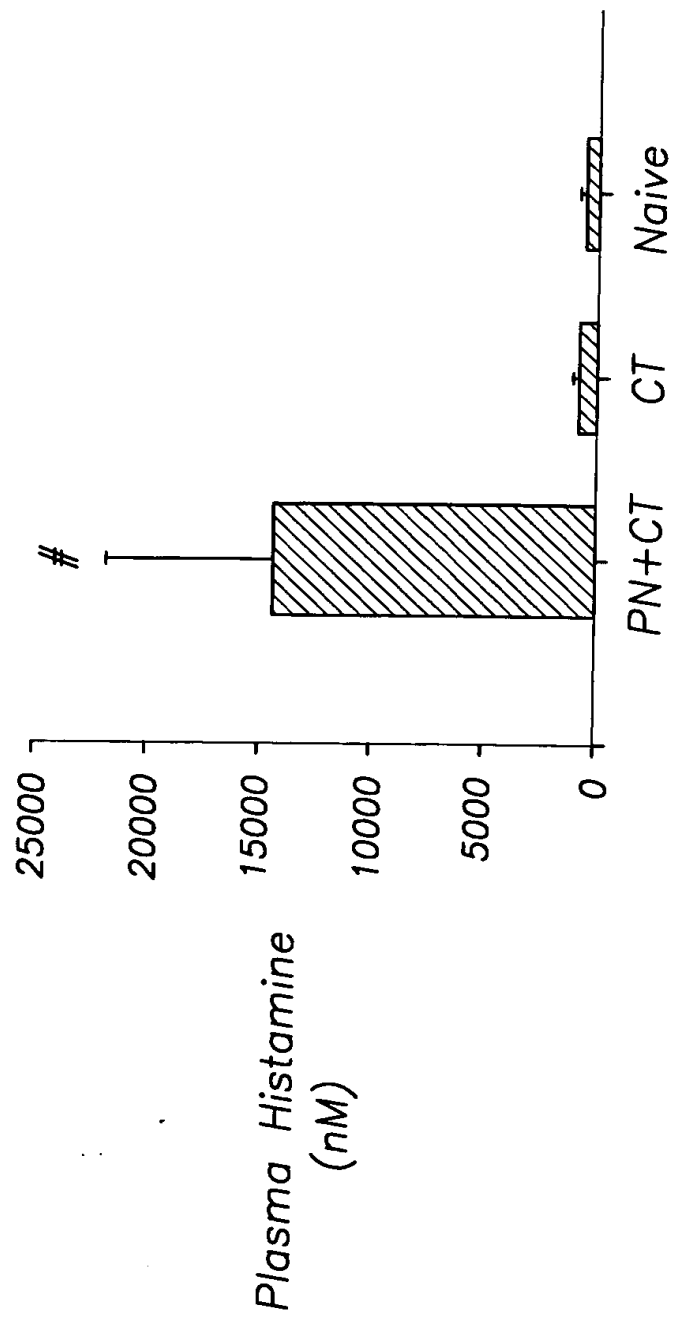
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FIG. 5A



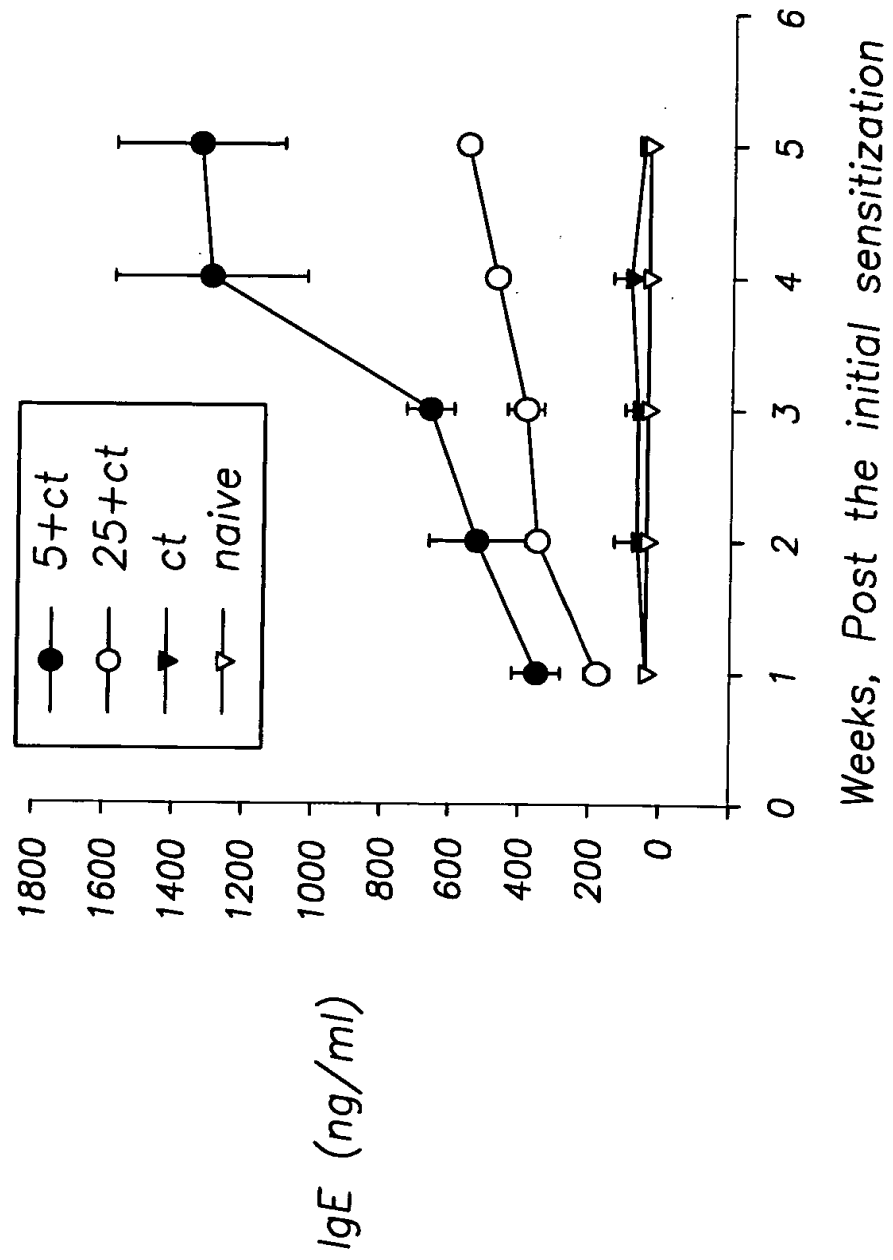
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FIG. 5B



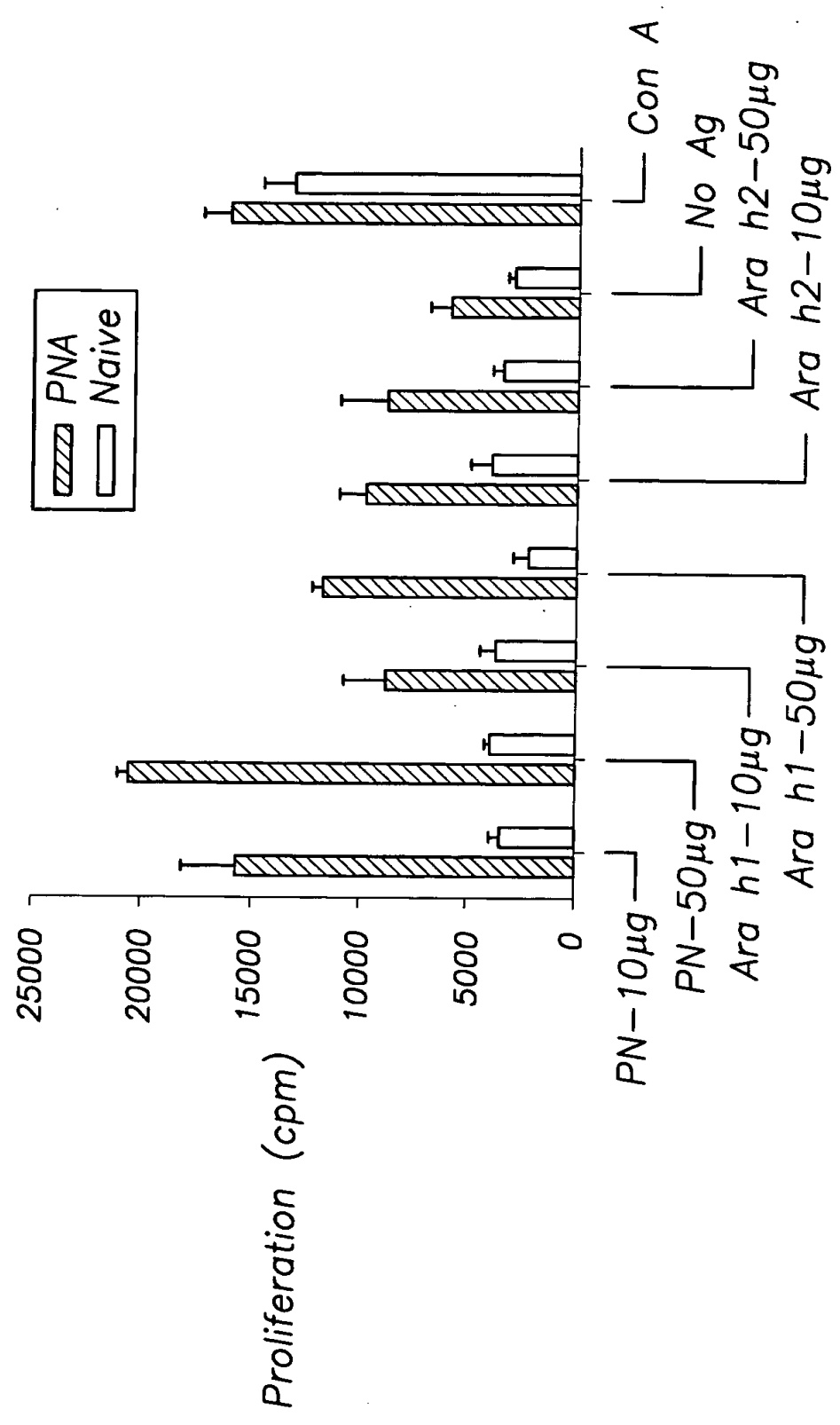
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FIG. 6



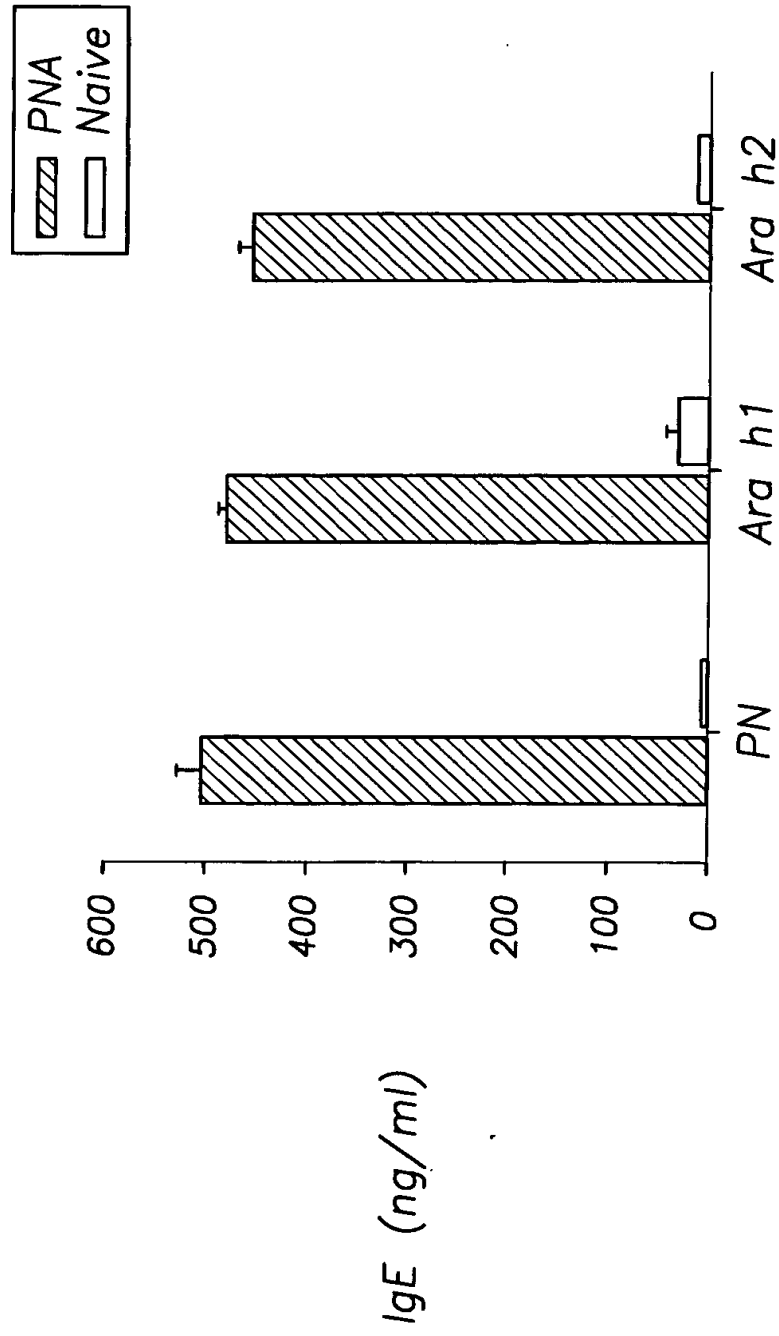
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FIG. 7



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FIG. 8



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FIG.9A

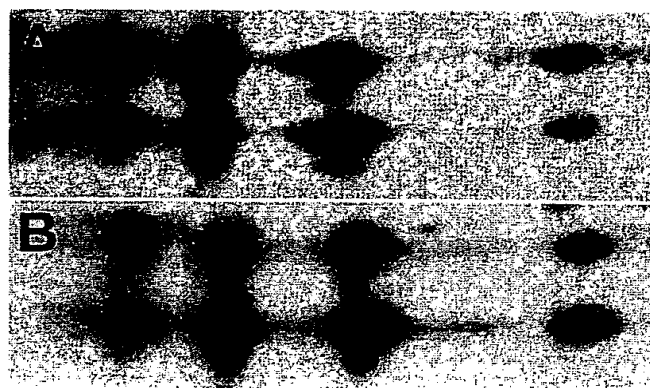


FIG.9B

FIG. 10A

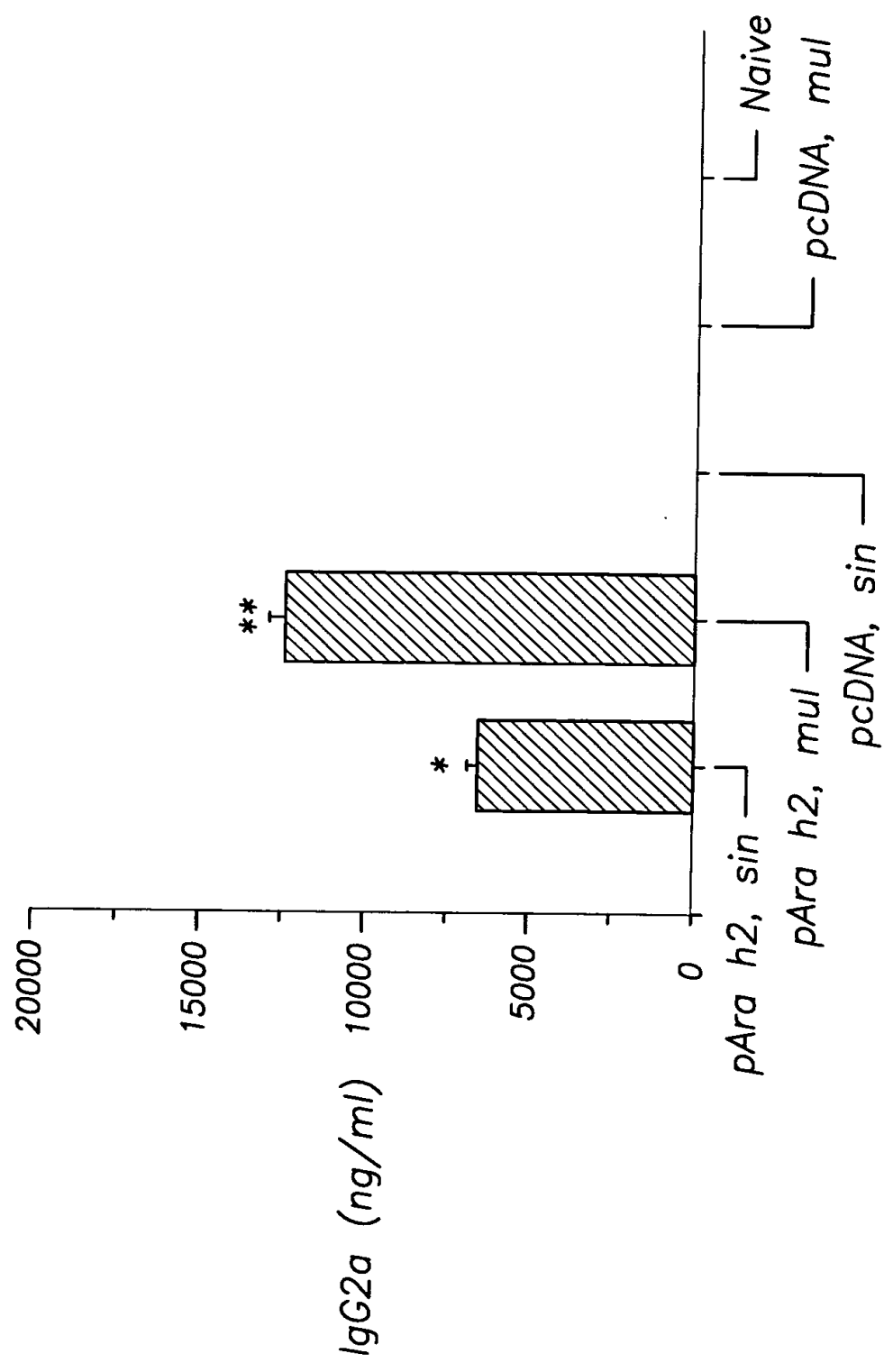


FIG. 10B

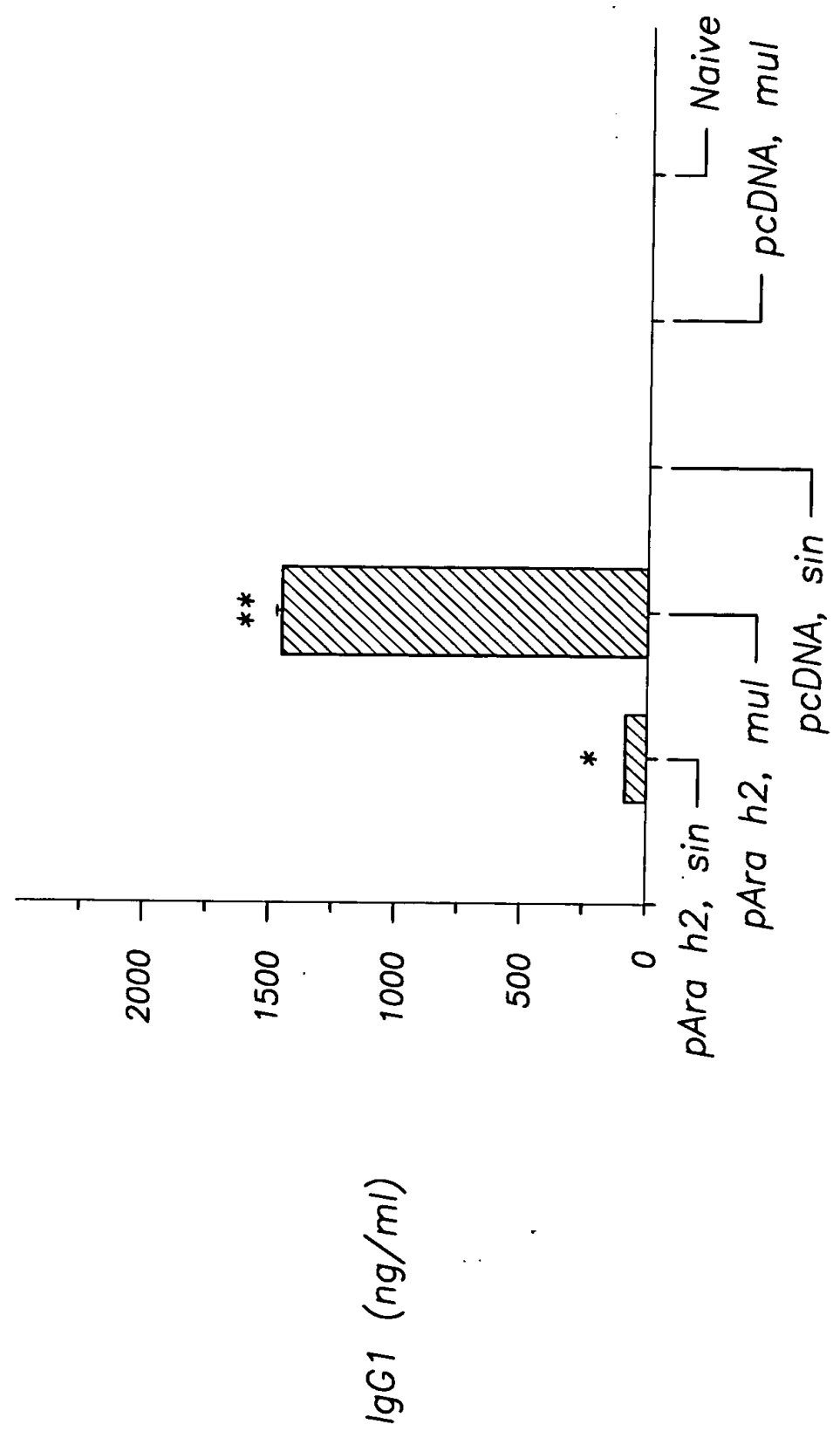


FIG. 11

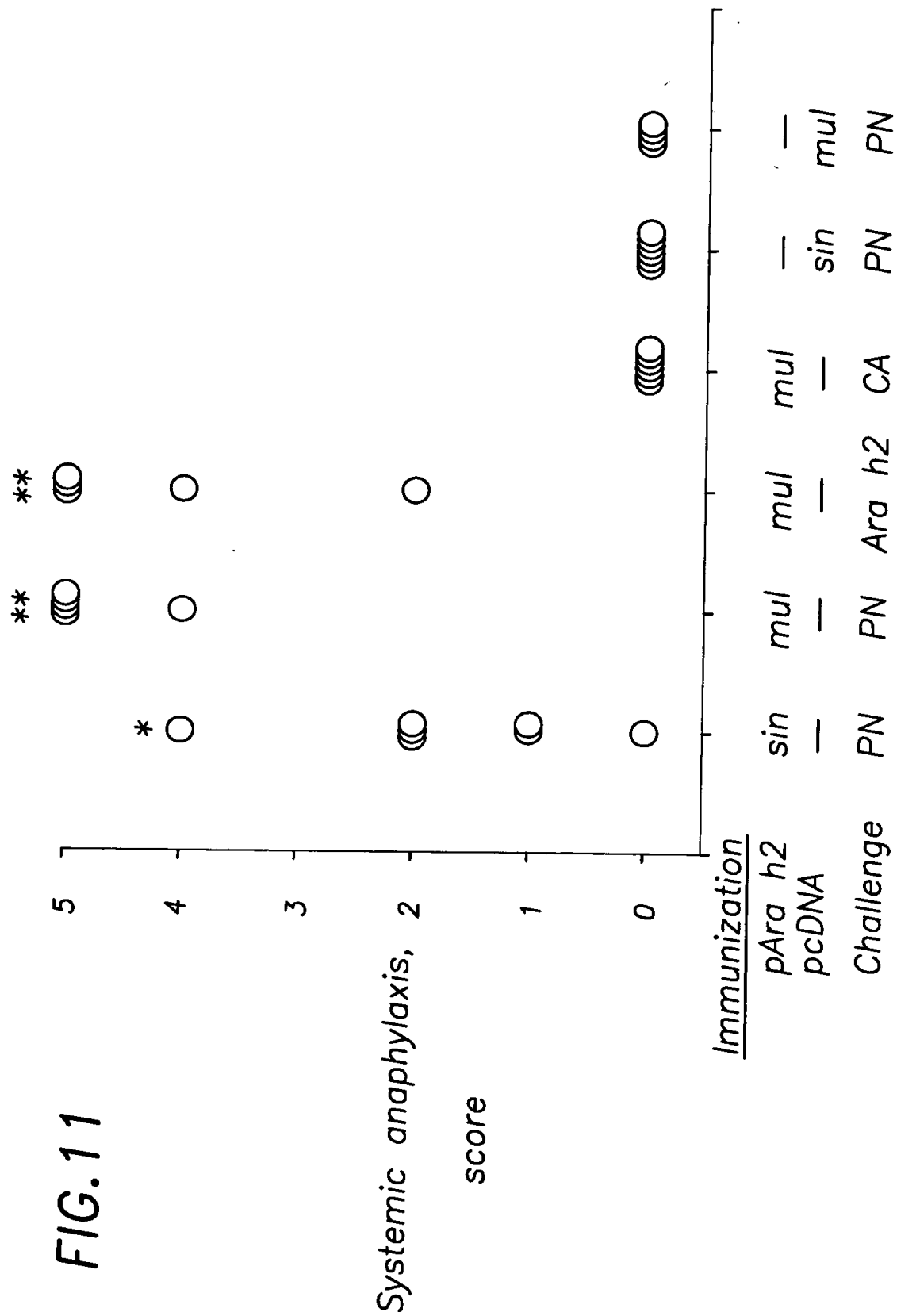


FIG.12

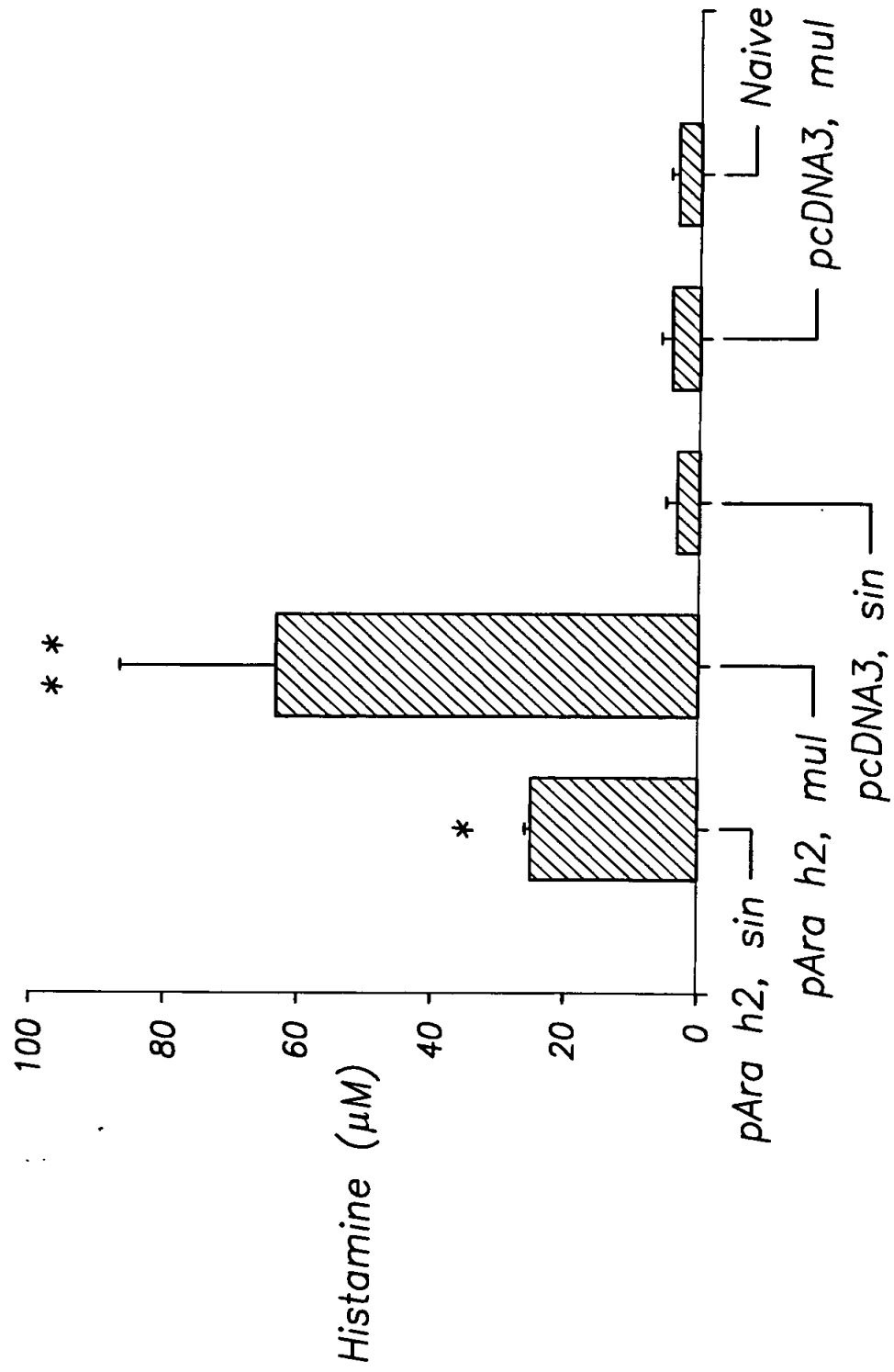


FIG. 13

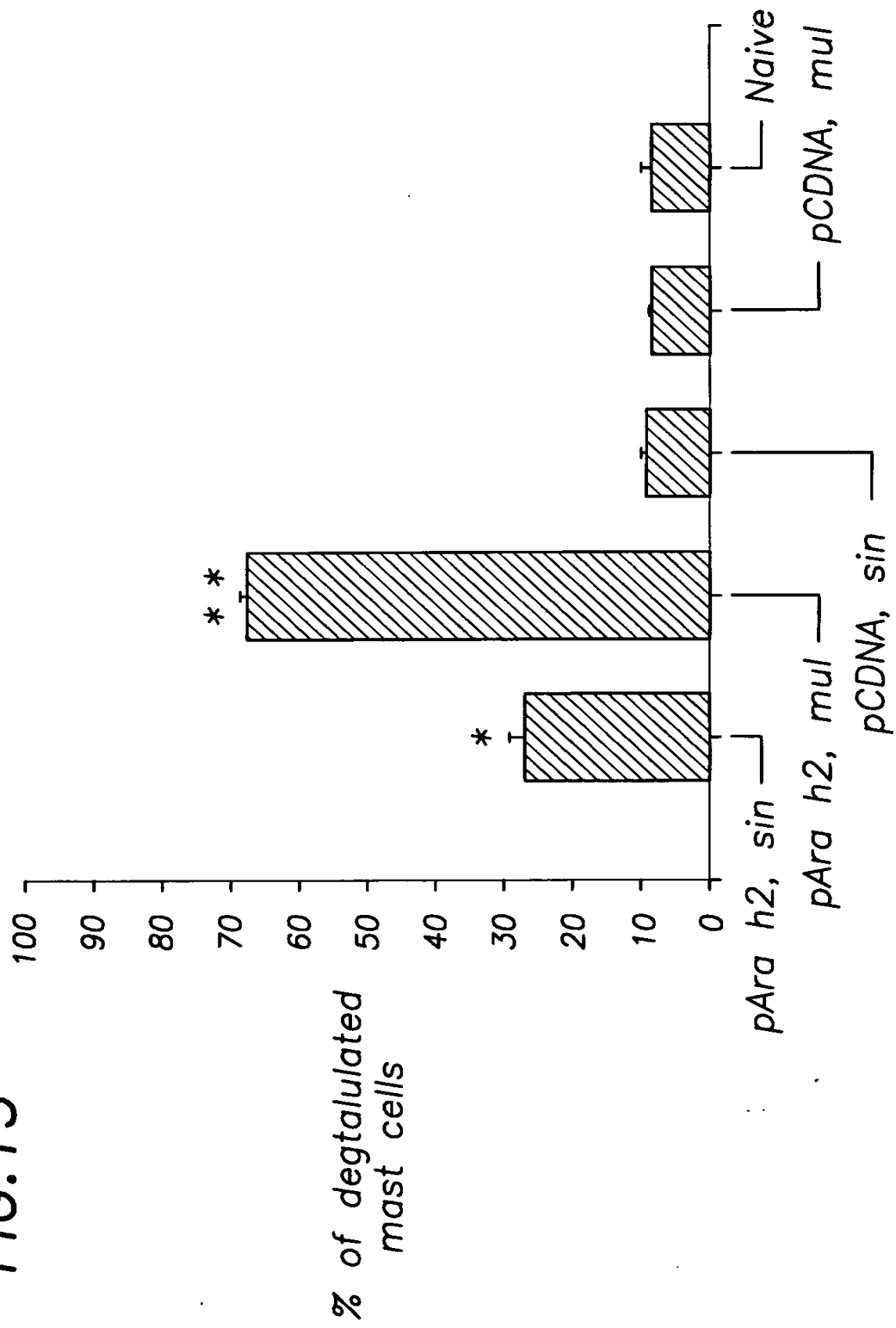


FIG. 14A

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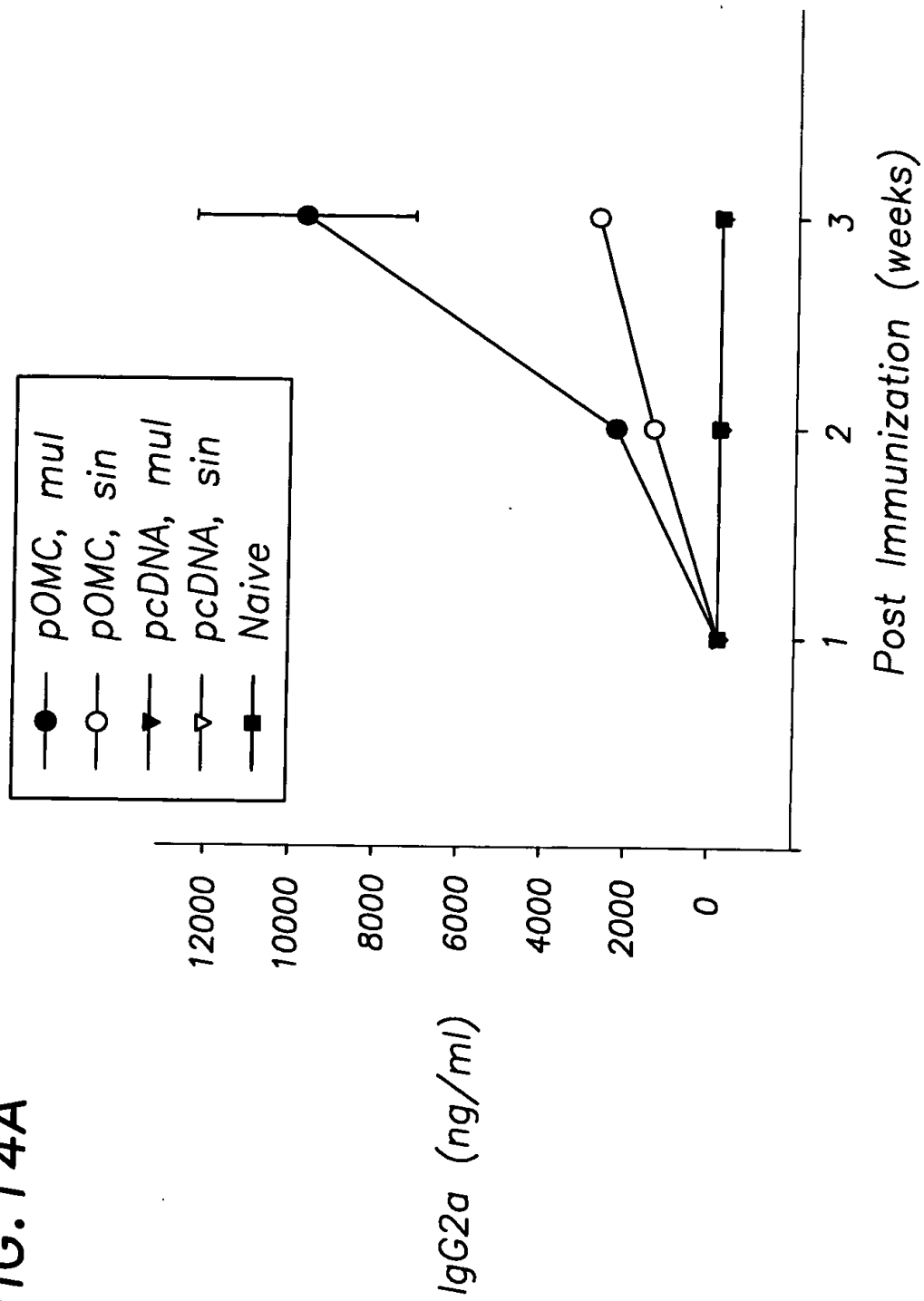


FIG. 14B

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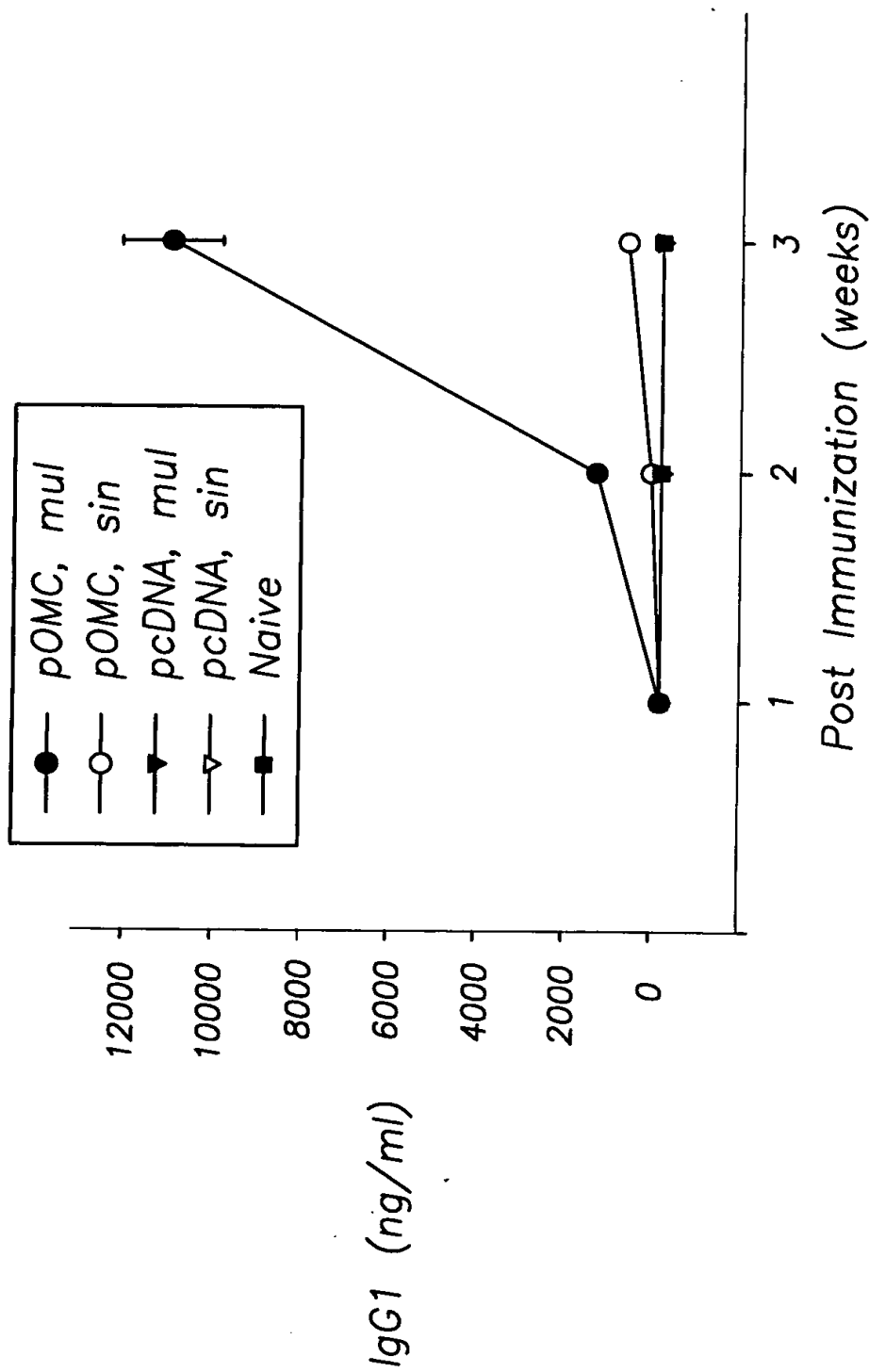


FIG. 15A

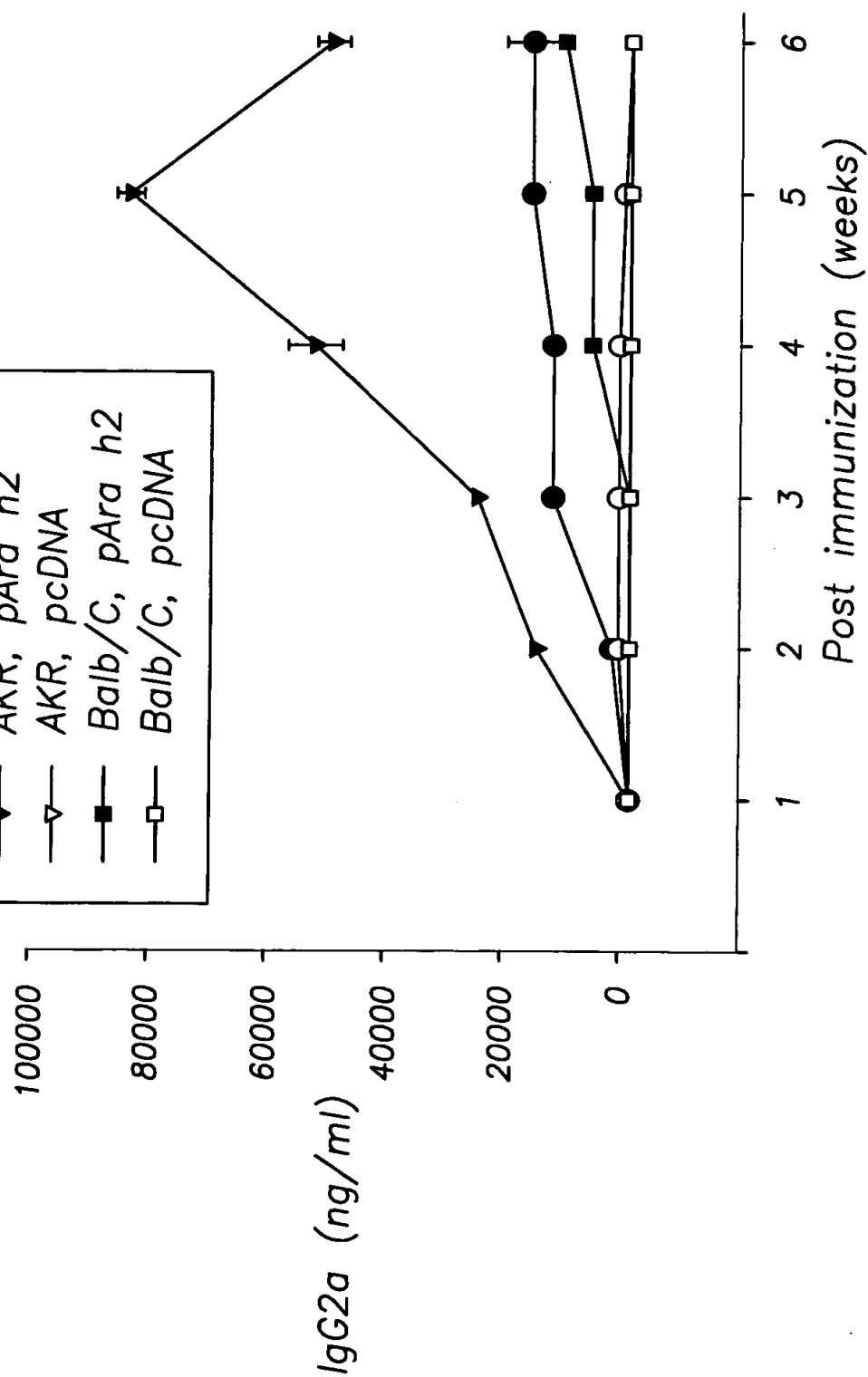


FIG. 15B

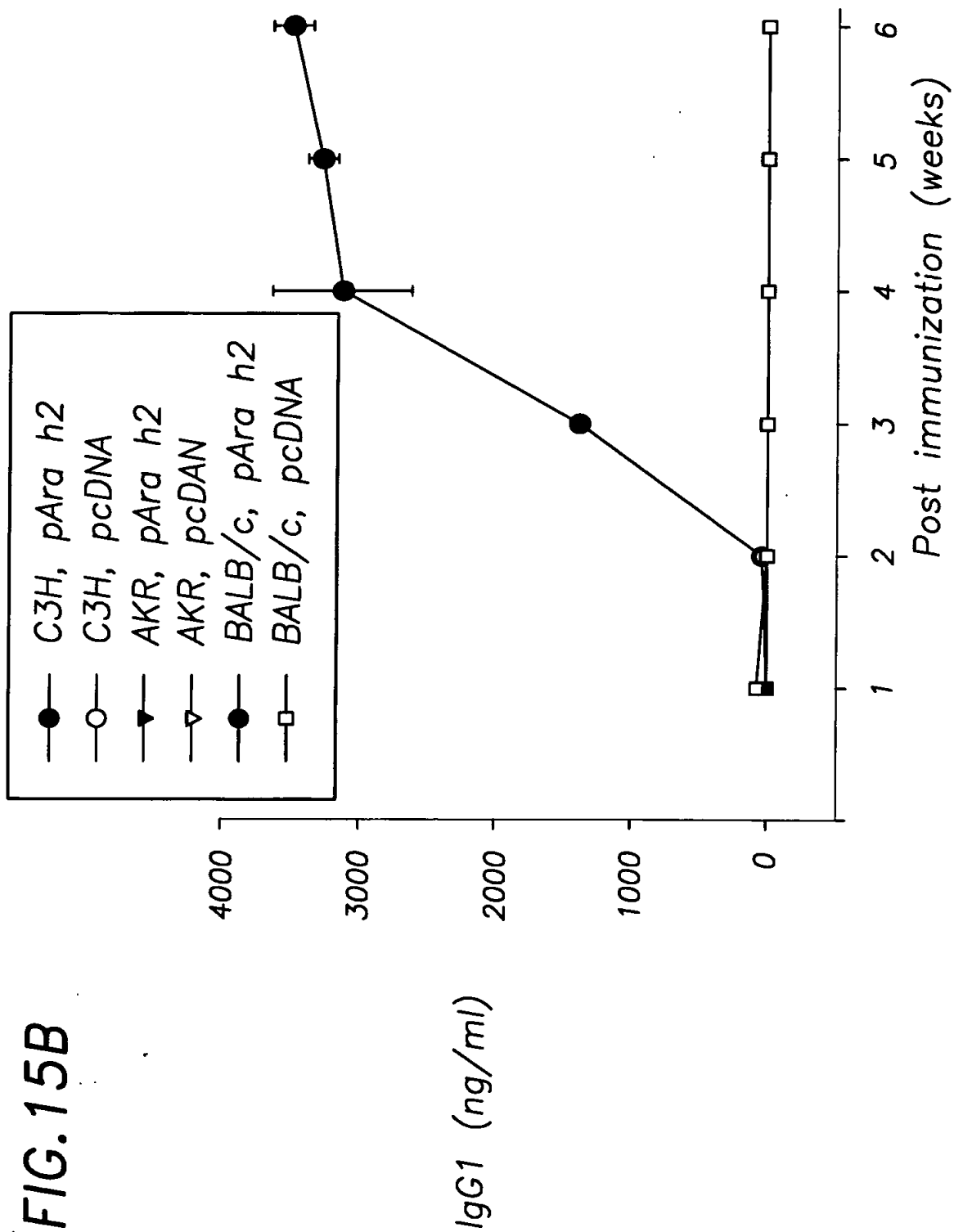


FIG. 16A

PEPTIDE →	Ara h	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
PATIENT 1	5.3	0.9	2.9	3.8	7.8	0.9	0.9	0.7	1	0.9	0.7
PATIENT 2	4.3	0.7	1.4	1.3	2.4	0.9	0.8	0.7	0.7	1	0.7
PATIENT 3	2.8	1	1.8	1.6	2.4	1.1	1.1	1.4	1.7	1.3	1.3
PATIENT 4	1.8	1	0.6	0.8	2.1	1	0.5	0.7	1.4	0.7	0.8
PATIENT 5	5.5	2.1	1.1	0.7	0.8	1	1.3	0.7	1.5	0.5	0.6
PATIENT 6	20.8	1	1.6	2.2	1.7	1.4	1	1.8	2.7	2.6	1.2
PATIENT 7	1.5	0.7	0.5	0.7	0.9	0.9	0.7	0.9	1.1	0.8	0.7
PATIENT 8	6.5	2.4	1.2	1.3	1.1	0.9	1.1	1.4	0.8	0.9	0.8
PATIENT 9	9.2	1.1	1.1	6.3	1.2	1.5	1.2	1	1.2	1.3	0.8
PATIENT 10	11.7	0.7	0.6	0.7	0.6	1.3	0.5	0.6	0.9	0.6	0.5
PATIENT 11	2.1	0.7	0.7	0.5	0.6	0.5	0.3	0.6	0.5	0.5	0.5
PATIENT 12	1.1	1.4	1.6	1.8	2.8	1.5	1.5	1.4	1.3	1.5	1.2
PATIENT 13	0.9	1.3	1.9	1.9	2.8	2	1.6	2.4	1.9	1.5	1.5
PATIENT 14	4.8	1.2	1.6	1.5	1.9	1.6	1.9	1.3	1.6	1.8	1.3
PATIENT 15	6.9	0.7	1.1	1.8	2.1	1.1	1	1.1	1.1	1	0.8
PATIENT 16	10.2	0.7	1.6	2.7	10.9	2	0.9	2.1	2.1	1.4	1
PATIENT 17	4.2	1.4	1.6	2.8	2.6	1.3	1.4	1.7	1.6	1.1	1.3
PATIENT 18	3.9	1.5	1.7	2.9	3	1.5	1.2	1.3	1.3	1.9	1
PATIENT 19	3.4	1.5	1.2	2.6	1.4	1.7	0.9	1	1.4	1.2	1.1

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TO
FIG. 16B

FIG. 16B

#11	#12	#13	#14	#15	#16	#17	#18	#19	#20	#21
0.9	1	0.8	1.2	0.9	1	1.2	1	5	7.3	6.6
0.7	0.6	0.5	1.1	0.7	0.7	0.7	0.5	1.9	4.3	3.4
1.7	0.9	0.9	1.3	1.2	1.4	1.2	1.1	1.1	1.4	1.4
0.7	0.5	0.6	1	1	0.7	0.7	0.7	1	1.4	1.6
0.7	0.3	0.8	0.8	0.7	0.5	0.5	0.6	4.4	2.2	1.6
1.4	1.2	1.2	1.1	0.9	0.7	1.4	3.9	0.6	0.7	0.9
1	1	0.7	0.8	1.1	1.1	0.7	1.2	1.2	1.4	1.4
1.2	1.3	1	1.2	1.4	1	1.1	3.5	1.3	1	1.2
0.8	1.5	0.9	0.8	0.9	1.1	0.7	1.9	1.4	1.3	1.4
0.5	0.8	0.7	0.4	0.5	0.7	0.7	0.6	1.6	1.2	1.1
0.8	0.5	0.7	0.7	0.4	0.4	0.7	0.6	0.6	0.5	0.8
1.1	1	1.1	1.4	1.4	1.1	1.3	1.2	1.3	1.9	2
1.7	1.9	1.4	1.2	1.5	1.3	1.5	2.3	1.6	1.3	1.8
1.1	1.3	0.9	0.9	1.2	1.1	1.5	5.1	3.5	2.2	2.1
1	1	1.2	1	0.7	1.2	1.4	2.2	1.2	1.1	1.4
0.8	0.9	0.8	0.6	0.8	0.7	0.7	1.6	3	2.5	5.8
1.2	1.7	1.7	1.1	1.7	1.5	1.6	1.2	1.4	1.2	1.3
1.3	1.2	0.9	1.7	1.7	1	1.6	2.1	3.4	3.8	6.3
1	1.3	1.1	1.4	1.6	1.3	1.3	1.3	1.4	1.5	1.7

FROM
FIG. 16A

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TO
FIG. 16C

FIG. 16C

#22	#23	#24	#25	#26	#27	#28	#29
6	3.4	4.6	6.4	7.5	5.1	11.3	0.9
3.6	1.4	1.4	1.5	1.9	1.5	2.2	0.5
2.1	1.1	0.7	1.2	1.2	1.3	0.9	1.2
2	1.2	1.1	1.4	1.4	1.5	1.1	0.6
2.5	1.4	1.7	1.9	2.2	1.7	3.3	0.5
0.8	1	0.7	0.9	0.6	0.7	1	1.5
2.3	1.5	1.6	1.3	1.5	1.4	1.8	0.6
1	1.1	1.8	1	1.1	1.5	1.3	1.3
0.5	1.5	1.5	1.2	1.2	1.6	1.1	2
1.3	1.3	0.7	1.5	1.3	1.5	1.4	0.6
0.6	0.6	0.7	0.7	0.8	0.8	0.5	0.5
1.5	1.3	1.3	1.7	1.8	1.1	1.3	1.4
1.6	1.5	1.7	1.6	1.7	2.2	1.3	1.4
1.9	1.6	1.5	2.8	3.3	2	2.7	1.1
1.4	0.9	1.2	1.5	1.5	1.4	1.1	0.9
16.8	1.4	1.7	4.9	3.3	5.3	12.1	1.4
1.7	1.2	1.2	1.9	1.6	1.4	2.9	1.2
7	1.6	1.8	2.7	3.5	4.3	5.1	1.6
2.4	1.4	1.6	1.5	1.3	1.2	1.7	0.9

FROM
FIG. 16B

FIG. 17A

Modified Ara h 1:

MASMTGGOMGRDPNSSS THAKSSPYQAKT ENPCAQRCLQSCQQEPDALK
QKACESRCTKLEYDPRCAYDPRGHTGTTNQSRPPGEATRGRQPGDYDDARRQPRAEEGGR
WGPA GPREREREEDARQPRE^WARP SHQQPRKARPEGREGEQE^WGTPGSHVREETSRNNP
FYFPSRRFSTRYGNQNGRI RVLQRF^DQ^RSRQFN^LQNHRI VQIEAKPNTLVLPKHADADN
I LVIQQQATVTVANGNNRKSFN^LDEGHALRIPSGFI SYILNRHDNQNLRVAKISMPVNT
PGQMEDFFPASSRDQSSYLQGFARNTLEA^AFAEANEIRRVLL^EENAGGEQEARGQRRWS
TR^SSENNEGVI VKVSK^EHVEELTKHAKSVSKKGSEEEGDITNPANLREGE^PDL^SNNFGKL
AEVKPDKNPQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVV^VNKGTGNLELVAVRKEQ
QQRGRREEE^EDEEEEGSNREV^RAYTARLKEGDVFI^MPA^AHPVA INASSELALLGFGIN
AENNHRI^FLAGDADNV^IDQIEKQAKALAA^PSGGEQVEKL^IKNQKESHFVAARPQSQSQSP
SSPEKESPEKEDQEEENQGGKGPLLSILKAFN KLAAALEHHHHHH (SEQ ID NO. 109)

FIG.17B

Modified Ara h 2:

WASMTGGOMGRDPNS ARQQAELQGDRRCQSQLARANLRACEAHLMQKI Q
AEDSYERAPYSPSQAPYSPSPYDRRGAGSSQHQRCCNELNEFENNQRC
MCEALQQI MENQSDRLQGAQQEQF KREARNL PQQCGL RA PQRC DADVES
GGRDRY AAALEHHHHH (SEQ ID NO. 108)

FIG.17C

Modified Ara h 3:

M ASFRQQPEENACQFQRLNAQRPDNRISEGGYIETWNANNQEFECAGV
ALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPRHYEEPHTQGRRSQSQRPP
RRLQGEDQSQQRDSSHQKVHRFDEGDLIAVPTGVAFWL YNDHDTDVVAVSLTD TNNNDNQ
LDQFRRFNLAGNTEQEFRLRYQQQSRQSRRRSLPYSYPSPQSPRQEE REFSPRGQHSRR
ERAGQEEENE^{GN}IFSGFTPEALFQAFQVDDRQIVQNLRGETESEEEGAIVTVRGGLRAL
SPDRKRRADEEEYDEDEYAYDEEDRRRGRGSRGRNGIEETICTASAKKNIGRNRSPDI
YNPQAGSLKTANDLNLILRWLGPSAEYGNLYRNALFVAHYNTNAHSI IYRLRGRAHVQV
VDSNGNRVYDEELQEGHVLVVPQNFAVAGKSQSENFEYVAFKTD SRPSIANLAGENSVID
NLPEEVVANSYGLQREQARQLKNNNPFKFVPPSQSPRAVA VDKLAAL EHHHHHH

(SEQ ID NO. 110)

FIG. 18

